

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/531,402
Source: PJ
Date Processed by STIC: 7/6/06

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 07/06/2006

PATENT APPLICATION: US/10/531,402

TIME: 14:08:58

Input Set : F:\CELL0294.ST25.txt

Output Set: N:\CRF4\07062006\J531402.raw

3 <110> APPLICANT: Humphreys, David Paul
 4 Chapman, Andrew Paul
 5 Robinson, Martyn Kim
 6 Spitali, Mariangela
 8 <120> TITLE OF INVENTION: E. COLI HOST CELLS WITH MODIFIED PHOS/PSTS PERIPLASMIC
 9 PHOSPHATE-BINDING PROTEINS, AND METHOD OF MANUFACTURING
 10 RECOMBINANT FABS
 12 <130> FILE REFERENCE: CELL-0294
 14 <140> CURRENT APPLICATION NUMBER: US 10/531,402
 C--> 15 <141> CURRENT FILING DATE: 2005-04-14
 17 <150> PRIOR APPLICATION NUMBER: PCT/GB2003/004474
 18 <151> PRIOR FILING DATE: 2003-10-15
 20 <150> PRIOR APPLICATION NUMBER: GB 0224082.8
 21 <151> PRIOR FILING DATE: 2002-10-16
 23 <160> NUMBER OF SEQ ID NOS: 31
 25 <170> SOFTWARE: PatentIn version 3.3
 27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 21
 29 <212> TYPE: DNA
 30 <213> ORGANISM: Escherichia coli
 32 <400> SEQUENCE: 1
 33 gtaattgact gaatatcaac g 21
 36 <210> SEQ ID NO: 2
 37 <211> LENGTH: 42
 38 <212> TYPE: DNA
 39 <213> ORGANISM: Escherichia coli
 41 <400> SEQUENCE: 2
 42 ctgtactaat aagcttccag gccgggtacg gtgttttacg cc 42
 45 <210> SEQ ID NO: 3
 46 <211> LENGTH: 42
 47 <212> TYPE: DNA
 48 <213> ORGANISM: Escherichia coli
 50 <400> SEQUENCE: 3
 51 cggcctggaa gcttattagt acagcggctt accgctactg tc 42
 54 <210> SEQ ID NO: 4
 55 <211> LENGTH: 24
 56 <212> TYPE: DNA
 57 <213> ORGANISM: Escherichia coli
 59 <400> SEQUENCE: 4
 60 ccgactcttt catcatcacc gggg 24
 63 <210> SEQ ID NO: 5
 64 <211> LENGTH: 60
 65 <212> TYPE: DNA

RAW SEQUENCE LISTING

DATE: 07/06/2006

PATENT APPLICATION: US/10/531,402

TIME: 14:08:58

Input Set : F:\CELL0294.ST25.txt

Output Set: N:\CRF4\07062006\J531402.raw

```

66 <213> ORGANISM: Escherichia coli
68 <400> SEQUENCE: 5
69 cggcctggaa gcttattaat cgtcatcgtc atcgtcgtac agcggcttac cgctactgtc      60
72 <210> SEQ ID NO: 6
73 <211> LENGTH: 73
74 <212> TYPE: DNA
75 <213> ORGANISM: Escherichia coli
77 <400> SEQUENCE: 6
78 cggcctggaa gcttattaat cgtcatcgtc atcgtcgtac agcgggtccc cgctactgtc      60
80 tttaaatattg gtc      73
83 <210> SEQ ID NO: 7
84 <211> LENGTH: 63
85 <212> TYPE: DNA
86 <213> ORGANISM: Escherichia coli
88 <400> SEQUENCE: 7
89 cgccgcgacc ttatcgatga gtgcttaata agtgattgaa gaagcaagcc tgacagggtgc      60
91 agg      63
94 <210> SEQ ID NO: 8
95 <211> LENGTH: 23
96 <212> TYPE: DNA
97 <213> ORGANISM: Escherichia coli
99 <400> SEQUENCE: 8
100 gcgttcgttc agcgtctgcc ggg      23
103 <210> SEQ ID NO: 9
104 <211> LENGTH: 21
105 <212> TYPE: DNA
106 <213> ORGANISM: Escherichia coli
108 <400> SEQUENCE: 9
109 ctgcttcgcg taagcatatt c      21
112 <210> SEQ ID NO: 10
113 <211> LENGTH: 22
114 <212> TYPE: DNA
115 <213> ORGANISM: Escherichia coli
117 <400> SEQUENCE: 10
118 ccaatattaa agacagtagc gg      22
121 <210> SEQ ID NO: 11
122 <211> LENGTH: 24
123 <212> TYPE: DNA
124 <213> ORGANISM: Escherichia coli
126 <400> SEQUENCE: 11
127 cattttgtaa tgccggatgc ggcg      24
130 <210> SEQ ID NO: 12
131 <211> LENGTH: 21
132 <212> TYPE: DNA
133 <213> ORGANISM: Escherichia coli
135 <400> SEQUENCE: 12
136 ctgagcttgc gcctggctgg c      21
139 <210> SEQ ID NO: 13
140 <211> LENGTH: 21

```

RAW SEQUENCE LISTING

DATE: 07/06/2006

PATENT APPLICATION: US/10/531,402

TIME: 14:08:58

Input Set : F:\CELL0294.ST25.txt

Output Set: N:\CRF4\07062006\J531402.raw

```

141 <212> TYPE: DNA
142 <213> ORGANISM: Escherichia coli
144 <400> SEQUENCE: 13
145 gctgccagca gctcaatggc g 21
148 <210> SEQ ID NO: 14
149 <211> LENGTH: 24
150 <212> TYPE: DNA
151 <213> ORGANISM: Escherichia coli
153 <400> SEQUENCE: 14
154 tacgacgatg acgatgacga ttaa 24
157 <210> SEQ ID NO: 15
158 <211> LENGTH: 21
159 <212> TYPE: DNA
160 <213> ORGANISM: Escherichia coli
162 <400> SEQUENCE: 15
163 gcttaataag tgattgaaga a 21
166 <210> SEQ ID NO: 16
167 <211> LENGTH: 90
168 <212> TYPE: DNA
169 <213> ORGANISM: Escherichia coli
171 <400> SEQUENCE: 16
172 ctgaagtccg gagaactggg gctggatggg aaaaccctcg gcgacatcta cctgggcgaa 60
174 atcaagaagt gggatgatga agccatcgcc 90
177 <210> SEQ ID NO: 17
178 <211> LENGTH: 90
179 <212> TYPE: DNA
180 <213> ORGANISM: Escherichia coli
182 <400> SEQUENCE: 17
183 ctgaagtccg gagaactggg gctggatggg aaaaccctcg gcgacatcta cctgggcgaa 60
185 atcgaagaat gggatgatga agccatcgcc 90
188 <210> SEQ ID NO: 18
189 <211> LENGTH: 90
190 <212> TYPE: DNA
191 <213> ORGANISM: Escherichia coli
193 <400> SEQUENCE: 18
194 ctgaagtccg gagaactggg gctggatggg aaaaccctcg gcgacatcta cctgggcaaa 60
196 atcgaaaagt gggatgatga agccatcgcc 90
199 <210> SEQ ID NO: 19
200 <211> LENGTH: 90
201 <212> TYPE: DNA
202 <213> ORGANISM: Escherichia coli
204 <400> SEQUENCE: 19
205 ctgaagtccg gagaactggg gctggatggg aaaaccctcg gcgacatcta cctgggcaaa 60
207 atcgaagaat gggatgatga agccatcgcc 90
210 <210> SEQ ID NO: 20
211 <211> LENGTH: 90
212 <212> TYPE: DNA
213 <213> ORGANISM: Escherichia coli
215 <400> SEQUENCE: 20

```

RAW SEQUENCE LISTING

DATE: 07/06/2006

PATENT APPLICATION: US/10/531,402

TIME: 14:08:58

Input Set : F:\CELL0294.ST25.txt

Output Set: N:\CRF4\07062006\J531402.raw

```

216 ctgaagtccg gagaactggt gctggatggt aaaaccctcg gcgacatcta cctgggcaaa      60
218 atcaaggaat gggatgatga agccatcgcc                                     90
221 <210> SEQ ID NO: 21
222 <211> LENGTH: 33
223 <212> TYPE: DNA
224 <213> ORGANISM: Escherichia coli
226 <400> SEQUENCE: 21
227 gtgctggaat tcttcgactg ggcgtacaaa acc                                33
230 <210> SEQ ID NO: 22
231 <211> LENGTH: 84
232 <212> TYPE: DNA
233 <213> ORGANISM: Escherichia coli
235 <400> SEQUENCE: 22
236 gaagatgcat ggcctattac ctctaccacg ttcattctga tccacgaaga tcaggaagaa      60
238 ccagaacaag gcacagaagt gctg                                           84
241 <210> SEQ ID NO: 23
242 <211> LENGTH: 84
243 <212> TYPE: DNA
244 <213> ORGANISM: Escherichia coli
246 <400> SEQUENCE: 23
247 gaagatgcat ggcctattac ctctaccacg ttcattctga tccacgaaga tcaggaaaaa      60
249 ccagaacaag gcacagaagt gctg                                           84
252 <210> SEQ ID NO: 24
253 <211> LENGTH: 84
254 <212> TYPE: DNA
255 <213> ORGANISM: Escherichia coli
257 <400> SEQUENCE: 24
258 gaagatgcat ggcctattac ctctaccacg ttcattctga tccacgaaga tcagaaggaa      60
260 ccagaacaag gcacagaagt gctg                                           84
263 <210> SEQ ID NO: 25
264 <211> LENGTH: 84
265 <212> TYPE: DNA
266 <213> ORGANISM: Escherichia coli
268 <400> SEQUENCE: 25
269 gaagatgcat ggcctattac ctctaccacg ttcattctga tccacgaaga tcagaagaaa      60
271 ccagaacaag gcacagaagt gctg                                           84
274 <210> SEQ ID NO: 26
275 <211> LENGTH: 84
276 <212> TYPE: DNA
277 <213> ORGANISM: Escherichia coli
279 <400> SEQUENCE: 26
280 gaagatgcat ggcctattac ctctaccacg ttcattctga tccacaaaga tcaggaagaa      60
282 ccagaacaag gcacagaagt gctg                                           84
285 <210> SEQ ID NO: 27
286 <211> LENGTH: 84
287 <212> TYPE: DNA
288 <213> ORGANISM: Escherichia coli
290 <400> SEQUENCE: 27
291 gaagatgcat ggcctattac ctctaccacg ttcattctga tccacaaaga tcaggaaaaa      60

```

RAW SEQUENCE LISTING

DATE: 07/06/2006

PATENT APPLICATION: US/10/531,402

TIME: 14:08:58

Input Set : F:\CELL0294.ST25.txt

Output Set: N:\CRF4\07062006\J531402.raw

```

293 ccagaacaag gcacagaagt gctg 84
296 <210> SEQ ID NO: 28
297 <211> LENGTH: 84
298 <212> TYPE: DNA
299 <213> ORGANISM: Escherichia coli
301 <400> SEQUENCE: 28
302 gaagatgcat ggcctattac ctctaccacg ttcattctga tccacaaaga tcagaaggaa 60
304 ccagaacaag gcacagaagt gctg 84
307 <210> SEQ ID NO: 29
308 <211> LENGTH: 36
309 <212> TYPE: DNA
310 <213> ORGANISM: Escherichia coli
312 <400> SEQUENCE: 29
313 cagttctccg gacttcagcc ctggaatggt aaccgc 36
316 <210> SEQ ID NO: 30
317 <211> LENGTH: 36
318 <212> TYPE: DNA
319 <213> ORGANISM: Escherichia coli
321 <400> SEQUENCE: 30
322 gtcgaagaat tccagcactt ctgtgccttg ttctgg 36
325 <210> SEQ ID NO: 31
326 <211> LENGTH: 95
327 <212> TYPE: DNA
328 <213> ORGANISM: Escherichia coli
330 <400> SEQUENCE: 31
331 cgataagctt attaatcgtc atcgtcatcg tcgtacagcg gttcaccgct actgtcttca 60
333 atattggttt cccacgcagc gcgaacctgt tcaac 95

```

VERIFICATION SUMMARY

DATE: 07/06/2006

PATENT APPLICATION: US/10/531,402

TIME: 14:08:59

Input Set : F:\CELL0294.ST25.txt

Output Set: N:\CRF4\07062006\J531402.raw

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date